	Application No.	Applicant(s)
Notice of Allowability	09/915,286	HORNICK ET AL.
	Examiner	Art Unit	
	Baoquoc N To	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.

2. ☒ The allowed claim(s) is/are *1-4, 6-21, 23-39 and 41-52*.

3. ☒ The drawings filed on *27 July 2001* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
    Paper No./Mail Date _____.

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____.

JEAN M. CORRIELUS
PRIMARY EXAMINER

DETAILED ACTION

1.   Claims 1-52 are pending in this application.

EXAMINER'S AMENDMENT

2.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Michael A. Schwartz, Reg. No. 40,161 on November 19, 2004.

Please replace claim 1 with; --"1. An application program interface executable by

a computer for providing data mining functionality comprising:

A first layer providing an interface with an application program; and

A second layer implement data mining functionality, the second layer comprising:

A data mining object repository maintaining data mining metadata,

A plurality of data mining project objects, each data mining session object

containing data mining objects created and used by a user,

A plurality of data mining session objects, each data mining session object

contain data mining processing performed on behalf of a user,

A plurality of data mining tables, each data mining table mapping a table or a

view in a database,

A plurality of data transformation objects, each data transformation object

defining computations to be performed on data in the database, a plurality of data

mining models, each data mining model implementing conditions and decisions, and

A plurality of data mining results objects, each data mining results object

generated as a result of scoring or analyzing a data mining model or an input data set;

Wherein the first layer and the second layer are implemented in the Java

program language."—

Please cancel claim 5.

In claim 6, lines 1 delete [5] and replace with —4—

Please replace claim 18 with; --"18.   A computer program product for use in an

electronic data processing system, comprising:

A computer readable medium;

Computer program instructions, recorded on the computer readable medium,

executable by a processor, for implementing an application program interface for

providing data mining functionality comprising:

A first layer providing an interface with an application program; and

A second layer implement data mining functionality, the second layer comprising:

A data mining object repository maintaining data mining metadata,

A plurality of data mining project objects, each data mining session object

containing data mining objects created and used by a user,

A plurality of data mining session objects, each data mining session object

contain data mining processing performed on behalf of a user,

A plurality of data mining tables, each data mining table mapping a table or a view in a database,

A plurality of data transformation objects, each data transformation object defining computations to be performed on data in the database, a plurality of data mining models, each data mining model implementing conditions and decisions, and

A plurality of data mining results objects, each data mining results object generated as a result of scoring or analyzing a data mining model or an input data set;

Wherein the first layer and the second layer are implemented in the Java program language."—

In claim 19, line 1 delete [16] and replace with –18--

In claim 20, line 1 delete [17] and replace with –19--

In claim 21, line 1 delete [18] and replace with –20—

Please cancel claim 22.

In claim 23, line 1 delete [20] and replace with –21—

In claim 24, line 1 delete [21] and replace with –22—

In claim 25, line 1 delete [22] and replace with –24—

In claim 26, line 1 delete [23] and replace with –25—

In claim 27, line 1 delete [24] and replace with –26—

In claim 28, line 1, delete [25] and replace with –27—

In claim 29, line 1 delete [26] and replace with –28—

In claim 30, line 1 delete [27] and replace with –29—

In claim 36, replace claim 36 with; --"36.   a system for implementing an

application program interface for providing data mining functionality comprising:

A processor operable to execute computer program instructions; and

A memory operable to store computer program instruction executable by the

processor, the computer program instructions implementing an application program

interface for providing a data mining functionality comprising:

A first layer providing an interface with an application program; and

A second layer implement data mining functionality, the second layer comprising:

A data mining object repository maintaining data mining metadata,

A plurality of data mining project objects, each data mining session object

containing data mining objects created and used by a user,

A plurality of data mining session objects, each data mining session object

contain data mining processing performed on behalf of a user,

A plurality of data mining tables, each data mining table mapping a table or a

view in a database,

A plurality of data transformation objects, each data transformation object

defining computations to be performed on data in the database, a plurality of data

mining models, each data mining model implementing conditions and decisions, and

A plurality of data mining results objects, each data mining results object

generated as a result of scoring or analyzing a data mining model or an input data set;

Wherein the first layer and the second layer are implemented in the Java

program language."—

In claim 37, line 1 delete [32] and replace with –36—

In claim 38, line 1 delete [33] and replace with –37—

In claim 39, line 1 delete [34] and replace with –38—

Please cancel claim 40.

In claim 41, line 1 delete [36] and replace with –39—

In claim 42, line 1 delete [37] and replace with –41—

In claim 43, line 1 delete [38] and replace with –42—

In claim 44, line 1 delete [39] and replace with –43—

In claim 45, line 1 delete [40] and replace with –44—

In claim 46, line 1 delete [41] and replace with –45—

In claim 47, line 1 delete [42] and replace with –46—

In claim 48, line 1 delete [43] and replace with –47—

Allowable Subject Matter

3.   Claims 1, 18 and 36 are allowed over prior art of record.

The following is an examiner's statement of reasons for allowance: None of the known

prior art alone or in combination neither teach or suggest "a second layer implement

data mining functionality, the second layer comprising: a data mining object repository

maintaining data mining metadata, a plurality of data mining project objects, each data

mining session object containing data mining objects created and used by a user, a

plurality of data mining session objects, each data mining session object contain data

mining processing performed on behalf of a user, a plurality of data mining tables, each

data mining table mapping a table or a view in a database, a plurality of data

transformation objects, each data transformation object defining computations to be

performed on data in the database, a plurality of data mining models, each data mining

model implementing conditions and decisions, and a plurality of data mining results

objects, each data mining results object generated as a result of scoring or analyzing a

data mining model or an input data set" and in conjunction with "wherein the first layer

and the second layer are implemented in the Java program language and a first layer

providing an interface with an application program."

The dependent claims 2-4 and 6-16 are depended on claim 1; therefore they are

allowed under the same reason as claim 1.

The dependent claims 19-21 and 23-35 are depended on claim 18; therefore,

they are allowed under the same reason as claim 18.

The dependent claims 37-39 and 41-52 are depended on claim 36; therefore,

they are allowed under the same reason as claim 36.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

3.   The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Related Patent:

Hobbs   (US. Patent No. 6,523,022 B1)   Patent date: 02/18/2003.

Tamayo et al. (US. Patent No. 2002/0083067 A1)   Patent date: 06/27/2002.

Battas et al. (US. Patent No. 6,757,689 B2)   Patent date: 06/29/2004.

Grimmer et al. (US. Patent No. 6,438,544 B1)   Patent date: 08/20/2002.

Merkey et al. (US. Patent No. 6,795,895 B2)   Patent date: 09/21/2004.

Related None-Patent :

Ranjit et al. (Application of intelligent technology for managerial data analysis and mining), ACM SIGMIS database, ACM Press New York, USA, Volume 30, Issue 1, Winter 1999.

Do Nascimento Fidalgo et al. (Providing OLAP interoperability with OLAPWare), Computer Science Society, 2002, SCCC2002. Pro 22nd International Conference of the Chilean, 6-8 Nov. 2002, pages: 167-176.

Contact Information

4.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

(703) 872-9306 [Official Communication]

Hand-delivered responses should be brought to:

Crystal Park II

2121 Crystal Drive

Arlington, VA 22202

Fourth Floor (Receptionist).

Baoquoc N. To

Nov 27, 2004

JEAN M. CORRIELUS
PRIMARY EXAMINER